

# EMERSON RADIO

## MODELS: 1002, 1003

### CHASSIS MODEL: 129003

The second i-f transformer (T2) is mounted on top of the chassis to the right of the speaker. The trimmers (C7, C8) are accessible through holes in the top of the can.

The trimmer for the antenna (C3) and the trimmer for the oscillator coil (C4) are located on the variable condenser. The trimmer on the front section is for the oscillator coil.

### I-f Alignment

1. Rotate the variable condenser to the minimum capacity position.
2. Feed 455 kc to the converter grid (stator of the r-f section of the variable condenser) and adjust the four i-f trimmers (C5, C6, C7, C8) for maximum response.

### R-f Alignment

1. Connect the oscillator to a coil composed of three or four turns of wire wound in a circle approximately 12" in diameter. This coil should be held parallel to and in line with the loop antenna of the receiver at a distance of 15 to 20 inches.
2. Radiate a signal at 1425 kc, set the dial indicator to 1425 kc, and adjust the trimmers on the variable condenser (C3, C4) for maximum response.
3. Radiate a 600 kc signal and tune in the signal on the receiver. Adjust the loose outside turn of the loop antenna for maximum response. This loose turn may be moved to either side of the center. Fasten it in the position which gives maximum response.
4. Repeat steps 2 and 3 until no further improvement is evident.

Schematic Symbol	Part No.	DESCRIPTION
C1, C2	900070	Two-gang variable condenser
*C3, C4		Trimmers, part of variable condenser
*C5, C6, { C7, C8 }		Trimmers, part of i-f transformers
C9, C15, { C20, C25 }	920010	0.002 mfd., 600 volt condenser
C10	920240	0.0005 mfd., 600 volt condenser
C11, C12, { C21 }	920020	0.02 mfd., 400 volt condenser
C13	920040	0.1 mfd., 200 volt condenser
C14	910010	0.00011 mfd. mica condenser
C16	920050	0.2 mfd., 200 volt condenser
C17, C24	920030	0.05 mfd., 400 volt condenser
C18, C19	925011	50-50 mfd., 150 volt dual electrolytic condenser
C22	920060	0.05 mfd., 200 volt condenser
C23	925180	10 mfd., 25 volt electrolytic condenser
L1	700000	Loop antenna
R1	340810	22,000 ohms, 1/2 watt resistor
R2, R9	397000	15 meg., 1/2 watt resistor
R3, R4	351130	470,000 ohms, 1/2 watt resistor
R5	340290	150 ohms, 1/2 watt resistor
R6	370490	1000 ohms, 1 watt resistor
R7, R14	351330	3.3 meg., 1/2 watt resistor
R8	390190	0.5 meg. volume control
R10	351050	220,000 ohms, 1/2 watt resistor
R11	340010	10 ohms, 1/2 watt resistor
R12	340050	15 ohms, 1/2 watt resistor
R13	390180	0.5 meg. volume control (sets below 8,767,450), or
R13	390014	2 meg. volume control (sets 8,767,450 and higher)
R15	340410	470 ohms, 1/2 watt resistor
R16	351050	220,000 ohms, 1/2 watt resistor (sets below 8,767,450), or
R16	340970	100,000 ohms, 1/2 watt resistor (sets 8,767,450 and higher)

